AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

- 1. (Currently amended) A supported catalyst composition system comprising
 - (a) a dehydrated support material,
 - (b) a transition metal compound, and
 - (c) an activator

characterised in that wherein said support material has been pretreated with at least two different organoaluminum compounds prior to contact with either or both the transition metal compound or the activator.

- 2. (Currently amended) A supported catalyst system according to claim 1 wherein the support is [[an]] a particulated solid material.
- 3. (Original) A supported catalyst system according to claim 2 wherein the support is silica.
- 4. (Currently amended) A supported catalyst system according to any of the preceding claims claim 1, 2 or 3 wherein the organoaluminium compounds are trialkylaluminium compounds.
- 5. (Currently amended) A supported catalyst system according to any of the preceeding claims claim 1 wherein the organoaluminium compounds are contacted sequentially with the support material.
- 6. (Currently amended) A supported catalyst system according to any of the preceding claims claim 1 wherein the transition metal compound is a metallocene.

7. (Currently amended) A supported catalyst system according to claim 6 wherein the metallocene has the formula:

CpMX_n

wherein Cp is a single cyclopentadienyl or substituted cyclopentadienyl group optionally covalently bonded to M through a substituent, M is a Group VIA metal bound in a η⁵ bonding mode to the cyclopentadienyl or substituted cyclopentadienyl group, X each occurence is hydride or a moiety selected from the group consisting of halo, alkyl, aryl, aryloxy, alkoxy, alkoxyalkyl, amidoalkyl, and siloxyalkyl [[etc.]] having up to 20 non-hydrogen atoms and neutral Lewis base ligands having up to 20 non-hydrogen atoms or optionally one X together with Cp forms a metallocycle with M and n is dependent upon the valency of the metal.

8. (Currently amended) A supported catalyst system according to claim 6 wherein the metallocene is represented by the general formula:

wherein:-

R' each occurrence is independently selected from hydrogen, hydrocarbyl, silyl, germyl, halo, cyano, and combinations thereof, said R' having up to 20 nonhydrogen atoms, and optionally, two R' groups (where R' is not hydrogen, halo or cyano) together form a divalent derivative thereof connected to adjacent positions of the cyclopentadienyl ring to form a fused ring structure;

X is a neutral η^4 bonded diene group having up to 30 non-hydrogen atoms, which forms a π -complex with M;

M is titanium or zirconium in the +2 formal oxidation state;

 Z^* is SiR*₂, CR*₂, SiR*₂SIR*₂ SiR*₂SiR*₂, CR*₂CR*₂, CR*=CR*, $\frac{CR^*_2SiR^*_2}{CR^*_2SiR^*_2}$, or GeR*₂,

wherein:

R* each occurrence is independently hydrogen, or a member selected from hydrocarbyl, silyl, halogenated alkyl, halogenated aryl, and combinations thereof, said R* having up to 10 non-hydrogen atoms, and optionally, two R* groups from Z* (when R* is not hydrogen), or an R* group from Z* and an R* group from Y form a ring system.

- 9. (Currently amended) A supported catalyst system according to any of the preceding claims claim 1 wherein the activator is an aluminoxane or a borane.
- 10. (Currently amended) A supported catalyst system according to claims claim 1 [[to 8]] wherein the activator has the formula:

$$(L^*-H)^+_d (A^{d-})$$

wherein

L* is a neutral Lewis base

(L*-H)⁺_d is a Bronsted acid

A^{d-} is a non-coordinating compatible anion having a charge of d⁻, and d is an integer from 1 to 3.

- 11. (Original) A supported catalyst system according to claim 10 wherein the anion comprises a boron metal.
- 12. (Original) A supported catalyst system according to claim 10 wherein the activator comprises a cation and an anion and wherein the anion has at least one substituent comprising a moiety having an active hydrogen.
- 13. (Currently amended) A supported catalyst system comprising
 - (a) a dehydrated support material,
 - (b) a transition metal compound, and
 - (c) an activator comprising (i) an organoaluminium compound and (ii) an organoboron compound,

characterised in that wherein said support material has been pretreated with at least two different organoaluminum compounds prior to contact with either or both the transition metal compound or the activator.

- 14. (Original) A supported catalyst system according to claim 13 wherein the activator comprises a trialkylaluminium compound and a triarylboron compound.
- 15. (Currently amended) A process for the polymerisation of olefin monomers selected from (a) ethylene, (b) propylene (c) mixtures of ethylene and propylene and (d) mixtures of(a), (b) or (c) with one or more other alpha-olefins, said process performed

under polymerisation conditions in the presence of a supported catalyst system as claimed in any of the preceeding claims claim 1 or 13.

- 16. (Currently amended) A process for the polymerisation of ethylene or the copolymerisation of ethylene and α-olefins having from 3 to 10 carbon atoms, said process performed under polymerisation conditions in the present of a supported polymerisation catalyst system as claimed in any of claims 1-14 claim 1 or 13.
- 17. (Currently amended) A process according to claims claim 15 [[or 16]] wherein the α-olefin alpha-olefin is 1-butene, 1-hexene, 4-methyl-1-pentene or 1-octene.
- 18. (Currently amended) A process- according to any of elaims claim 15 [[to 17]] performed in the solution, slurry or gas phase.
- 19. (Currently amended) A process according to any of claims claim 15 [[to 18]] performed in a fluidised bed gas phase reactor.
- 20. (Currently amended) A process for the preparation of copolymers of ethylene and alpha-olefins having
 - (a) \underline{a} melt strength (16 Mpa) in the-range 3 12 cN, and

(b) a molecular weight distribution (Mw/Mn) of> 2.

- said process comprising contacting ethylene and one or more alpha-olefins in the presence of a supported metallocene catalyst system as claimed in any of claims claim 1 [[to 14]] or 13.
- 21. (Currently amended) A dehydrated catalyst support material *characterised in that* said comprising support material *that* has been pretreated with at least two different organoaluminum compounds prior to the addition of further catalyst components.